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Serial No. 10/038,074

Atty. Docket No. 13DV13864

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (previously presented). A system for correcting twist in airfoil components having a twist angle, said system comprising:

a first fixture assembly for holding a first end of said airfoil component;

a rotary drive unit for rotating said first fixture assembly about an axis;

a second fixture assembly for holding a second end of said airfoil component, said second fixture assembly being aligned with said axis;

means for measuring the twist angle of said airfoil component; and

means for controlling said rotary drive unit in response to said means for measuring to obtain a desired twist angle.

Claim 2 (cancelled).

Claim 3 (cancelled).

Claim 4 (previously presented). The system of claim 1 wherein said rotary drive unit includes an adapter that engages said first fixture assembly and a motor drivingly coupled to said adapter.

Claim 5 (original). The system of claim 4 further comprising a gear reducer unit coupled between said adapter and said motor.

Claim 6 (original). The system of claim 4 further comprising a torque sensing assembly coupled between said adapter and said motor.

Claim 7 (previously presented). The system of claim 1 further comprising a carriage capable of moving linearly with respect to said first fixture assembly, said second fixture assembly being mounted on said carriage.

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Claim 8 (original). The system of claim 7 wherein said means for measuring includes a gage mounted on said carriage.

Claim 9 (original). The system of claim 7 further comprising a screw rotatively mounted adjacent to said carriage, a motor drivingly coupled to said screw, and a nut threadingly mounted on said screw, said nut being attached to said carriage.

Claim 10 (previously presented). The system of claim 1 wherein said first fixture assembly includes:

a base plate;

first and second support blocks mounted to said base plate;

a slide block slidably mounted to said first support block;

a pneumatic cylinder unit mounted on said first support block, said pneumatic cylinder unit engaging said slide block for moving said slide block relative to said second support block;

a first jaw supported by said slide block; and

a second jaw supported by said second support block in juxtaposition with said first jaw.

Claim 11 (original). The system of claim 10 wherein said first and second jaws are interchangeable.

Claim 12 (previously presented). The system of claim 1 wherein said second fixture assembly includes a jaw holder and a jaw attached to said jaw holder.

Claim 13 (original). The system of claim 12 wherein said jaw is interchangeable.

Claim 14 (currently amended). A system for correcting twist in airfoil components having a twist angle, said system comprising:

a base having a lower portion and an upper portion extending vertically upward from said lower portion;

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a horizontal plate supported by said lower portion;
a vertical plate supported by said upper portion;
a lower fixture assembly for holding a first end of an airfoil component mounted on said horizontal plate;
a rotary drive unit for rotating said lower fixture assembly mounted to said horizontal plate;
a carriage slidably mounted on said vertical plate;
an upper fixture assembly for holding a second end of said airfoil component mounted on said carriage directly above said lower fixture assembly;
a gage for measuring twist angle in said airfoil component mounted on said carriage; and
a controller for controlling said rotary drive unit in response to input from said gage to obtain a desired twist angle, wherein said lower fixture assembly includes:

a base plate engaged by said rotary drive unit;
first and second support blocks mounted to said base plate;
a slide block slidably mounted to said first support block;
a pneumatic cylinder unit mounted on said first support block, said pneumatic cylinder unit engaging said slide block for moving said slide block relative to said second support block;
a first jaw supported by said slide block; and
a second jaw supported by said second support block in juxtaposition with said first jaw.

Claim 15 (original). The system of claim 14 wherein said rotary drive unit includes an adapter that engages said lower fixture assembly and a motor drivingly coupled to said adapter.

Claim 16 (original). The system of claim 15 further comprising a gear reducer unit coupled between said adapter and said motor.

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Claim 17 (original). The system of claim 15 further comprising a torque sensing assembly coupled between said adapter and said motor.

Claim 18 (original). The system of claim 14 further comprising a screw rotatively mounted to said vertical plate, a motor drivingly coupled to said screw, and a nut threadingly mounted on said screw, said nut being attached to said carriage.

Claim 19 (original). The system of claim 18 wherein said motor is controlled by said controller.

Claim 20 (cancelled).

Claim 21 (currently amended). The system of claim 14 20 wherein said first and second jaws are interchangeable.

Claim 22 (original). The system of claim 14 wherein said upper fixture assembly includes a jaw holder attached to said carriage and a jaw attached to said jaw holder.

Claim 23 (original). The system of claim 22 wherein said jaw is interchangeable.

Claim 24 (cancelled).